

FEATURES

PETERMANN

TECHNIK

Time & Frequency Components

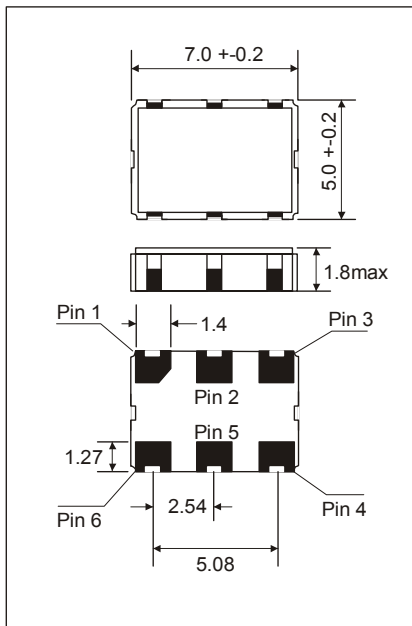
- HIGH RELIABILITY FOR LOW COST
- PECL OUTPUT SIGNAL
- COMPLEMENTARY OUTPUT OPTION
- JITTER OPTIMIZED SMALL SMD-OSCILLATOR
- EXCELLENT CLOCK SIGNAL GENERATOR FOR TELECOM AND TRANSMISSION SYSTEMS
- EXTENDED TEMPERATURE RANGE TO -40/+85°C

SMD-OSCILLATOR SERIES			M6307
PACKAGE			Ceramic 7.2 x 5.2 x 1.8 mm³
FREQUENCY RANGE			48.0 ~ 180.0 MHz
FREQUENCY STABILITY	VS. TEMPERATURE		+25 ~ +-100 ppm
	VS. SUPPLY VOLTAGE		+5 ppm max.
	VS. LOAD		+1 ppm max.
	VS. AGING		+5 ppm max. / 1 year
OPERATING TEMPERATURE RANGE			0/+70°C ~ -40/+85°C
STORAGE TEMPERATURE RANGE			-55/+125°C
INPUT		VOLTAGE	+3.3 VDC +-5%
		CURRENT	100 mA max.
OUTPUT	SYMMETRY	STANDARD	40/60% @VDD-1.3V Level
		OPTION	45/55% @VDD-1.3V Level
	RISE AND FALL TIME PECL		1.5 ns max. @20 ~ 80% PECL
	"0" LEVEL	PECL 3.3 VOLT	VDD -1.62V max.
	"1" LEVEL		VDD -1.02V min.
	LOAD	PECL	50 Ω to VDD -2VDC
PIN CONNECTION			SEE OUTLINE DRAWING
START-UP TIME			10 ms max.
PERIOD JITTER RMS			10 ps typ. @ 155.52 MHz
DELIVERY FORM			TAPE & REEL / 1.000 pcs per reel
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION			

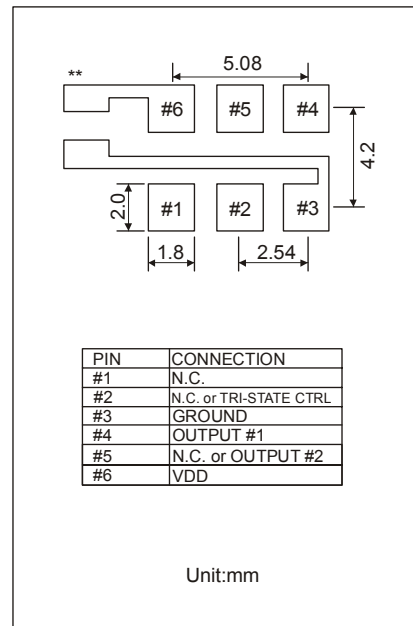
PART NUMBERING SYSTEM

EXAMPLE	M6307-25-W-S-E-C-155.520MHZ-T
SERIES	M6307
FREQUENCY STABILITY VS. TEMPERATURE	BLANK = 100 PPM
	50 = 50 PPM
	25 = 25 PPM
TEMPERATURE RANGE	BLANK = 0/+70°C
	N = -10/+60°C
	M = -20/+70°C
	W = -40/+85°C
SYMMETRY	BLANK = 40/60%
	S = 45/55%
TRI-STATE CONTROL	BLANK = NOT CONNECT
	E = TRI-STATE
COMPLEMENTARY OUTPUT	BLANK = PIN 5 NOT CONNECTED
	C = COMPLEMENTARY OUTPUT
FREQUENCY	REQUIRED FREQUENCY
DELIVERY FORM	T = TAPE AND REEL

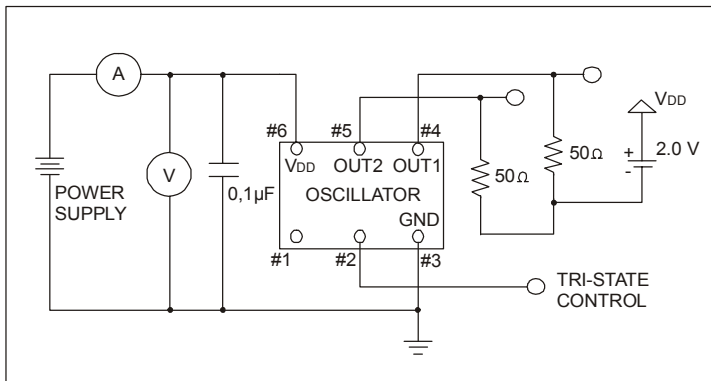
OUTLINE DRAWING OF M6307



RECOMMENDED LAND PATTERN

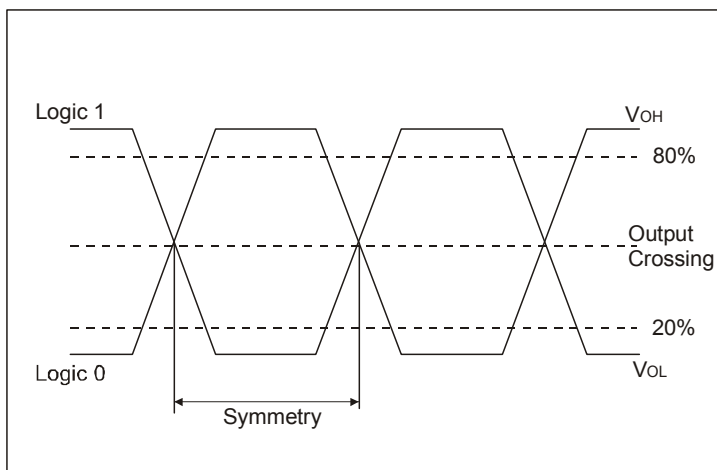


TEST CIRCUIT FOR PECL



**A capacitor of value 0.01 μF or greater between VDD and Ground is recommended.

PECL OUTPUT WAVE FORM



REFLOW SOLDER PROFILE

